



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gary A. Clawson
Serial No. : 10/552,914
Filed : October 13, 2005
Title : RNA INTERFERENCE COMPOSITIONS AND METHODS

Art Unit : 1635
Examiner : Unknown
Conf. No. : 6907

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
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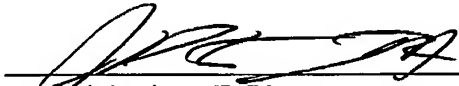
The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (3 pages);
3. Copies of Cited References (34 references); and
4. A Return Postcard.

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Date: October 23, 2006

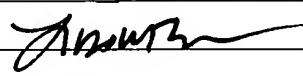

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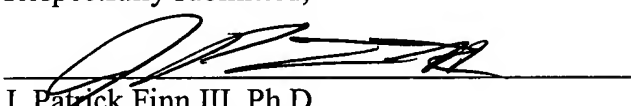
INFORMATION DISCLOSURE STATEMENT

Applicant requests consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of the listed U.S. patents or U.S. patent application publications can be provided upon request.

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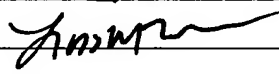

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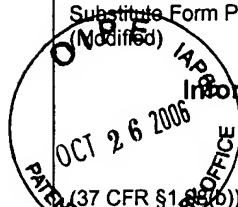
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Substitute Form PTO-1449 (Modified)  Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.818(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 14017-009US1	Application No. 10/552,914
	Applicant Gary A. Clawson			
	Filing Date October 13, 2005		Group Art Unit 1635	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,683,195	07/28/87	Mullis et al.			
	AB	4,873,191	10/10/89	Wagner et al.			
	AC	5,500,357	03/19/96	Taira et al.			
	AD	5,580,859	12/03/96	Felgner et al.			
	AE	5,589,466	12/31/96	Felgner et al.			
	AF	5,824,519	10/20/98	Norris et al.			
	AG	6,271,359	08/07/01	Norris et al.			
	AH	6,506,559	01/14/03	Fire et al.			
	AI	60/417,997		Clawson			
	AJ	2002/0160393	10/31/02	Symonds et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AK	WO 97/17458	05/15/97	WIPO				
	AL	WO 04/02416	01/08/04	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AM	GenBank® Accession No. K02718 dated March 18, 1994, 6 pages
	AN	GenBank® Accession No. U34113 dated March 8, 1996, 2 pages
	AO	GenBank® Accession No. U34135 dated March 8, 1996, 2 pages
	AP	GenBank® Accession No. AF003019 dated September 20, 1997, 2 pages
	AQ	GenBank® Accession No. U89348 dated October 27, 1999, 5 pages
	AR	GenBank® Accession No. X02496 dated April 27, 1999, 4 pages
	AS	"Growth and Maintenance of Flp-In™ Cell Lines," Catalog nos. R750-07, R752-07, R758-07 Version B, Invitrogen Corporation, 5 pages, believed to have been publicly available on or before October 13, 2005
	AT	Benedict et al., "Triple ribozyme mediated down-regulation of the retinoblastoma gene," <u>Carcinogenesis</u> , 1998, 19(7):1223-1230

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AU	Boletta et al., "High Efficient Non-Viral Gene Delivery to the Rat Kidney by Novel Polycationic Vectors," <u>J. Am Soc. Nephrol.</u> 1996, 7(9):1728, Abstract No. A2409
	AV	Buhr et al., "Ribozyme termination of RNA transcripts down-regulate seed fatty acid genes in transgenic soybean," <u>Plant J.</u> , 2002, 30(2):155-163
	AW	Crone et al., "Growth Inhibition by a Triple Ribozyme Targeted to Repetitive B2 Transcripts," <u>Hepatology</u> , 1999, 29:1114-1123
	AX	Doudna and Cech, "The chemical repertoire of natural ribozymes," <u>Nature</u> , 2002, 418:222-228
	AY	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <u>Nature</u> , 2001, 411:494-498
	AZ	Templeton et al., "Improved DNA: liposome complexes for increased systemic delivery and gene expression," <u>Nat. Biotechnol.</u> , 1997, 15:647-652
	AAA	Garber, "Prescription RNA," <u>Technology Review</u> , 2002, pp. 42-48
	ABB	Gossler et al., "Transgenesis by means of blastocyst-derived embryonic stem cell lines," <u>Proc. Natl. Acad. Sci. USA</u> , 1986, 83(23):9065-9069
	ACC	Hammond et al., "An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cells," <u>Nature</u> , 2000, 404:293-296
	ADD	Jang et al., "A Segment of the 5' Nontranslated Region of Encephalomyocarditis Virus RNA Directs Internal Entry of Ribosomes during In Vitro Translation," <u>J. Virol.</u> , 1988, 62(8):2636-2643
	AEE	Jiang and Milner, "Selective silencing of viral gene expression in HPV-positive human cervical carcinoma cells treated with siRNA, a primer of RNA interference," <u>Oncogene</u> , 2002, 21(39):6041-6048
	AFF	Lo, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations Without Tandem Insertions," <u>Mol. Cell. Biol.</u> , 1983, 3(10):1803-1814
	AGG	Pan et al., "Rapid Identification of Efficient Target Cleavage Sites Using a Hammerhead Ribozyme Library in an Iterative Manner," <u>Molecular Therapy</u> , 2003, 7(1):129-139
	AHH	Pan et al., "A selection system for identifying accessible sites in target RNAs," <u>RNA</u> , 2001, 7:610-621
	AII	Ren et al., "Construction and deployment of triple ribozymes targeted to multicatalytic proteinase subunits C3 and C9," <u>Gene Ther. Mol. Biol.</u> , 1999, 3:257-269
	AJJ	Schnieke et al., "Human Factor IX Transgenic Sheep Produced by Transfer of Nuclei from Transfected Fetal Fibroblasts," <u>Science</u> , 1997, 278:2130-2133
	AKK	Takagi et al., "Group II Introns and mRNA Splicing. Mechanism of action of hammerhead ribozymes and their applications <i>in vivo</i> : rapid identification of functional genes in the post-genome era by novel hybrid ribozyme libraries," <u>Biochem. Soc. Trans.</u> , 2002, 30(6):1145-1149
	ALL	Thompson et al., "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells," <u>Cell</u> , 1989, 56:313-321
	AMM	Van der Putten et al., "Efficient insertion of genes into the mouse germ line via retroviral vectors," <u>Proc. Natl. Acad. Sci. USA</u> , 1985, 82:6148-6152
	ANN	Fields et al. (eds.), "Pathogenesis of Viral Infections," <u>Fields Virology</u> , 1996, 3rd Edition, Lippincott Williams & Wilkins, New York, New York, pp. 186-191
	AOO	Wang et al., "Inhibition of <i>Trypanosoma brucei</i> Gene Expression by RNA Interference Using an Integratable Vector with Opposing T7 Promoters," <u>J. Biol. Chem.</u> , 2000, 275(51):40174-40179

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	APP	Yuyama et al., "A multifunctional expression vector for an anti-HIV-1 ribozyme that produces a 5'- and 3'-trimmed <i>trans</i> -acting ribozyme, targeted against HIV-1 RNA, and <i>cis</i> -acting ribozymes that are designed to bind to and thereby sequester <i>trans</i> -activator proteins such as Tat and Rev," <u>Nucleic Acids Res.</u> , 1994, 22(23):5060-5067
	AQQ	Zhang et al., "Involvement of the Fungal Nuclear Migration Gene <i>nudC</i> Human Homolog in Cell Proliferation and Mitotic Spindle Formation," <u>Exp. Cell Res.</u> , 2002, 273:73-84
	ARR	Zuker and Jacobson, "Using reliability information to annotate RNA secondary structures," <u>RNA</u> , 1998, 4:669-679

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